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**Structural Characterization of Bioengineered alpha-D-Glucans Produced by Mutant Glucansucrase GTF180 Enzymes of Lactobacillus reuteri Strain 180**

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Supporting Information.

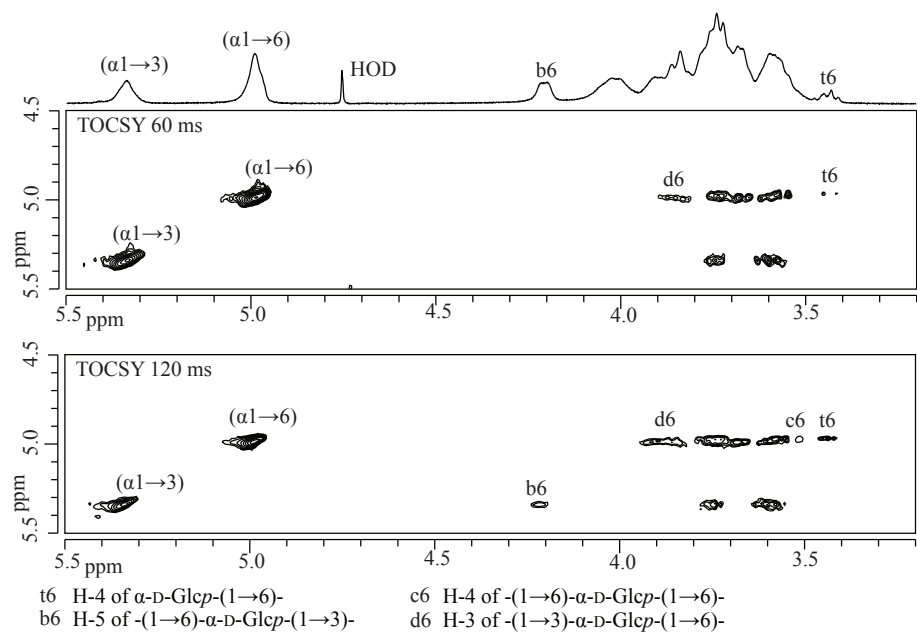


Figure A. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY spectra (upper 60 ms, lower 120 ms) of **mEPS-SNS**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

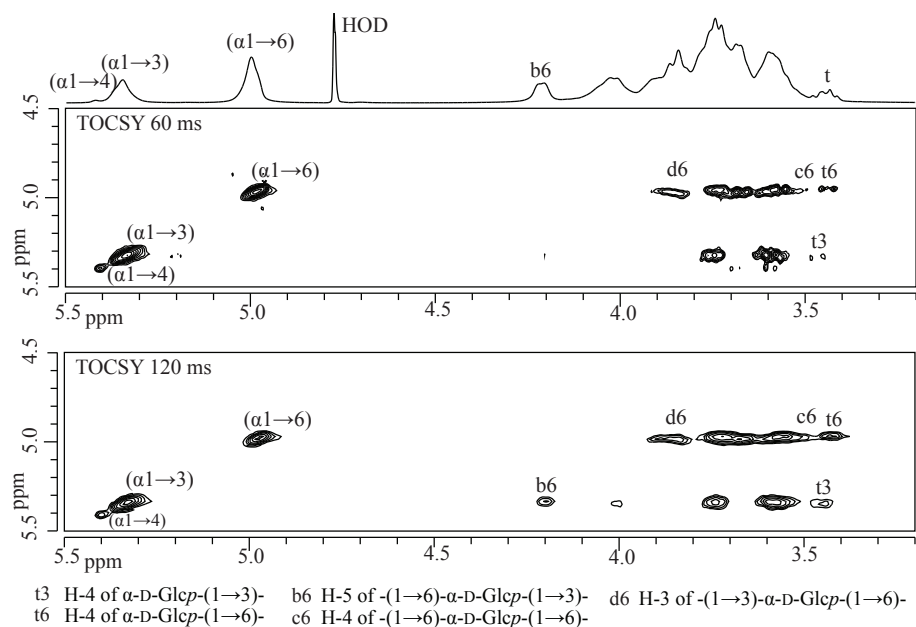


Figure B. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY spectra (upper 60 ms, lower 120 ms) of **mEPS-SDA**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

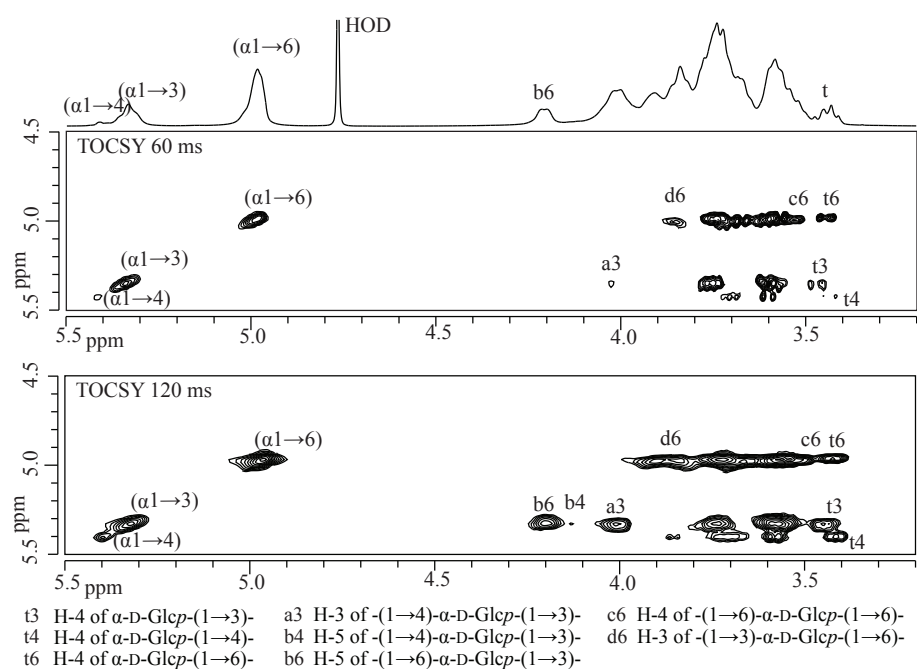


Figure C. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY spectra (upper 60 ms, lower 120 ms) of **mEPS-SNAE**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

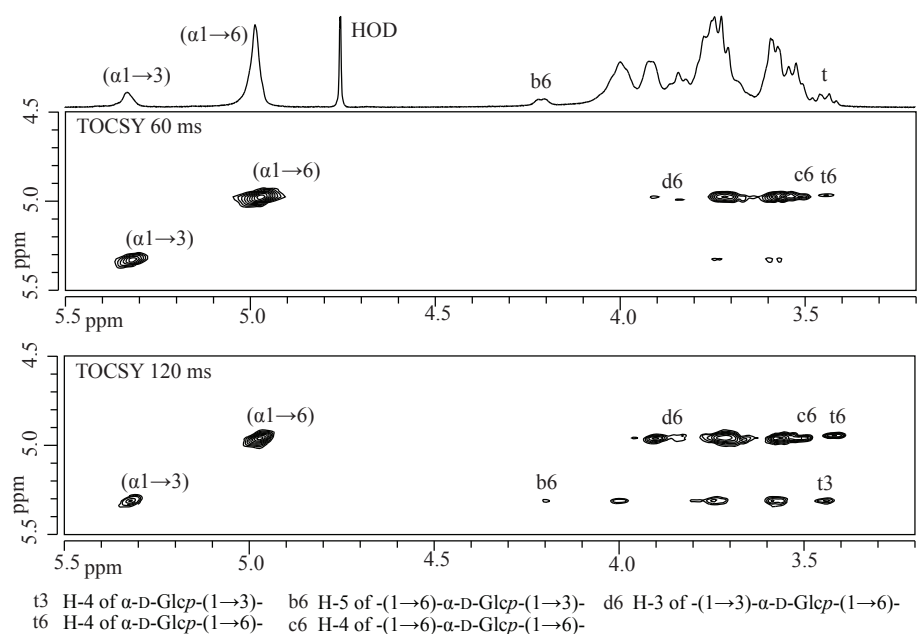


Figure D. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY spectra (upper 60 ms, lower 120 ms) of **mEPS-SNAA**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

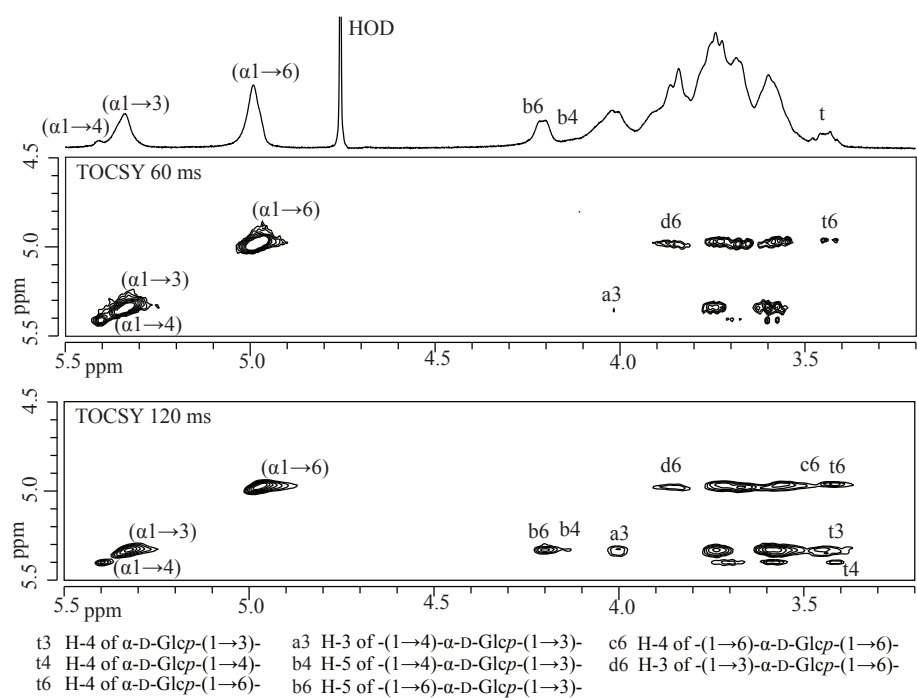


Figure E. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY spectra (upper 60 ms, lower 120 ms) of **mEPS-NNV**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

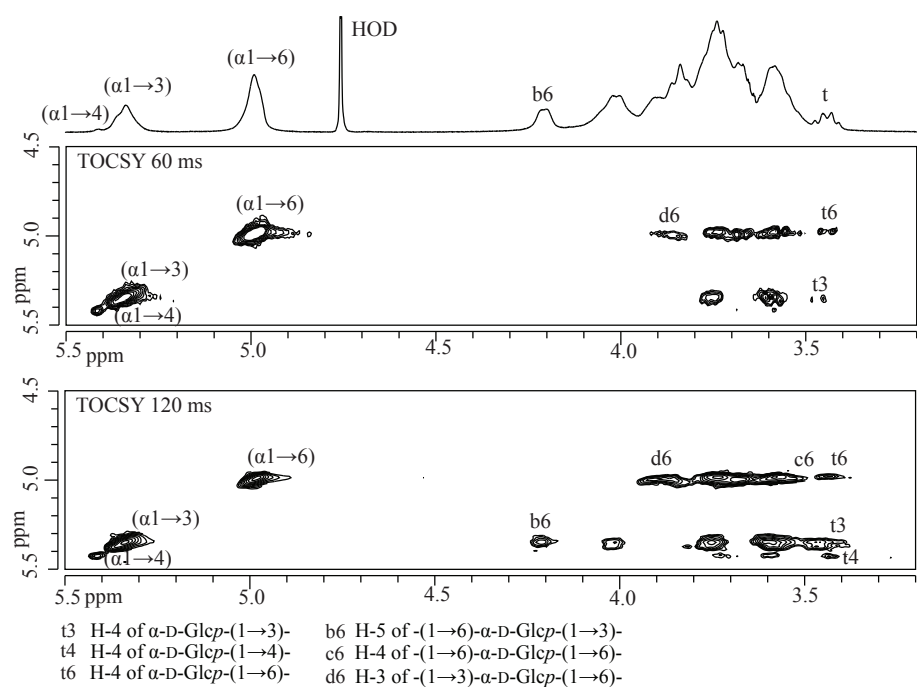


Figure F. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY spectra (upper 60 ms, lower 120 ms) of **mEPS-SEV**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

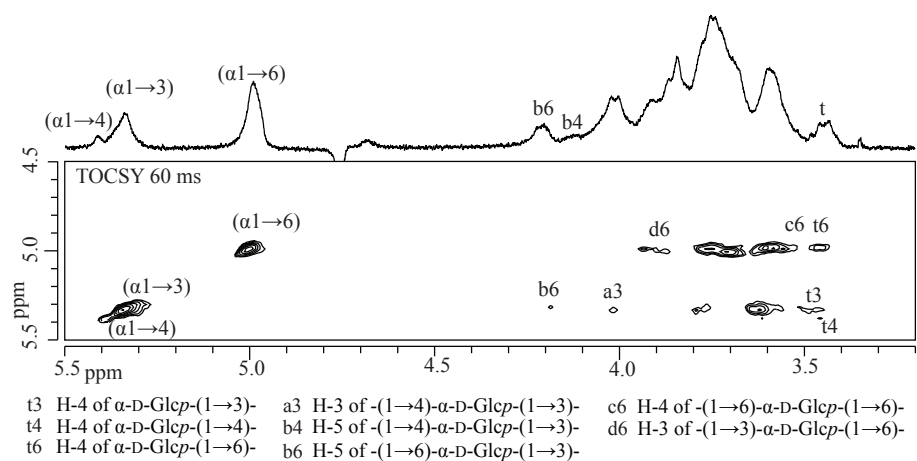


Figure G. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY (mixing time 60 ms) spectrum of **mEPS-YNA**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.



Supporting Information.

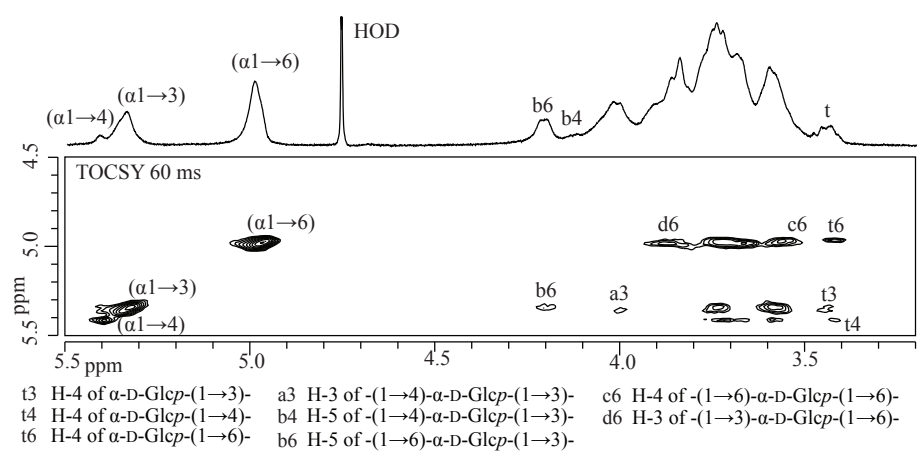


Figure H. 500-MHz 1D  $^1\text{H}$  NMR spectrum and the relevant parts of the 2D  $^1\text{H}$ - $^1\text{H}$  TOCSY (mixing time 60 ms) spectrum of **mEPS-NNS**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.

Supporting Information.

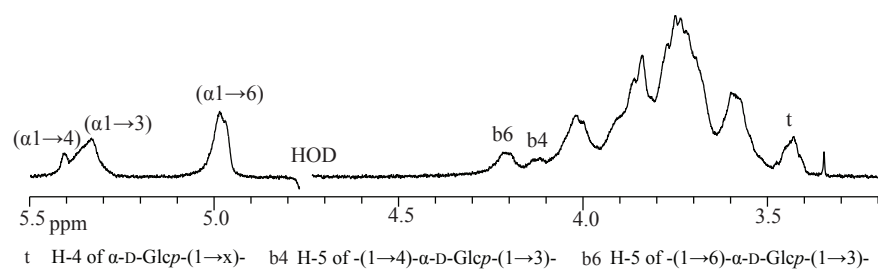


Figure I. 500-MHz 1D  $^1\text{H}$  NMR spectrum of **mEPS-YDA**, recorded at 300K in  $\text{D}_2\text{O}$ . Anomeric signals and structural-reporter-group signals have been indicated with labels; the legend to the labels used is included.